Notebook, PN-07-03-02

The one dated entry in this pocket notebook is from March 1907. The book, which was probably used in part at Edison's winter home in Fort Myers, Florida, contains notes by Edison regarding experimental work and other tasks to be performed. Included are experiments pertaining to x-rays and "xyz rays," the "Edison effect," electromotographs, electric lights and rectifiers, "wireless," and batteries. Some of the proposed experiments involve the use of radium, photographic paper, fluorescent crystals, and cocaine. One experiment involves the lamp of a projecting kinetoscope; another relates to the growing of a plant in the dark while watering it with chlorophyll juice. The entries in the first half of the book are more speculative than those in the second half and include a reference to an unknown ray in the ether. The last page contains a list of landscaping tasks at Fort Myers. Among the employees mentioned in relation to individual experiments are Ralph Arbogast, William G. Bee, Thomas D. Greenley, Otto Groethe, John F. Ott, Ludwig F. Ott, and O. A. Rogers. The pages are unnumbered. Approximately 120 pages have been used.

H. M. BERTH & Co.
STATIONERS,
21 & 23 NASSAU ST.,
NEW-YORK.

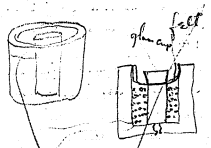
PN-07-03-02

"K&T"

March 2nd 1907

Use radium near surface of
Chalk on Ellmgraph - lead
shutter - also if get sounds
try a lot of malleable metals
or oxides metals Etc possibly
other radiations may be found
most observable by
Elec or photo - try
X ray tubes & light Etc.
also diffusion of chemicals
to test Chalk cylinder

Use of Radium & X ray
after Capillarity
in glass tubes of
any accelerance -



Crystallizing — Magnetic field

Crystallizing fluorescent Crystal in closed box in dark with H_2SO_4 to absorb H_2O use cold saturated solutions. see if more sensitive to grinding or to X + Radium —

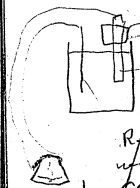
Run down screen of chemical gives black spots on photo plate,
use 50 mesh screen gives black paper + have nothing press on photo plate,

Run down using H pole of Lead gives black grounds on Chem paper —

Try Dessoul Nerve machine — working power by wires —

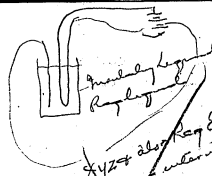
Use Sodium salts near pure Bunsen flame + use Spectroscope then Let Radium + X ray strike Crystals + any Sodium Molecules fly off into the flame should get Na Spectrum 3 millionth of Milligram in distilled

See if absorption spectrum
of the alkalies surf also
changed by X ray or
Radium (remember third
item – also flame spectrum



Run set up with
with acc combustion

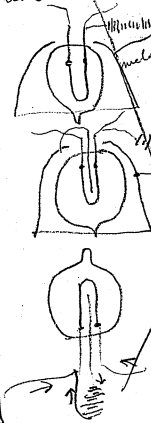
for Elec also try
242 pressure, interruption
try Emly on it –



242 also try Elec
+ Emly + interruption

See if Al_2O_3 can be deposited
on the heated metal Ni
for insulation to permit use
as Electrolytic condenser
if so try Beryllium also.

Exports to neutralize Company in Incandescent Lamps



With Carbon Lamp use of Lamp with deposited metallic film. Make Carbon use of lamp with use of current source)

Try Bengal C.P. cell - Metallic Electrode one Gave the action Coated with a solid substance by dipping in a melted sol of a substance which dissolves in Benzol & use intermittent break & XYZ or Elec of Lamp materials -

also try Acetone only acetic 30% Conc Acetone. Use melted solid sol - these liquids which cling to Electrode try various metals -

Try precipitating in tubes
in a battery - also
powerful magnet poles
also prepare colored
precips in dilute acids
Fill dry & then water
Color -
Make Crystal alums in
dilute acids &

See if can photo
Spark of aluminum
with Condenser Control
Scintillations - also
Cerium, Mg & other
Metals should give
colors

also make alloys metals
& see if can roughly

determine % of each
by eye -

See if magnetic force
also surface tension
of a drop - def Chemical
also height of
def drop - if in
Capillary power

also absorption spectrum
of def Chemicals -
also X ray Rhodium
Hydrolysis by Bi Sulphate
& then Electric furnace
flashing -

Rundown action that
dissolves or weakens bamboo
splints, flexibility, elasticity

Apply Radium tube to
a pot flowers plants
piece of in time it
will affect it like a
human being —

grow a vine in pot
in dark — water it
with Chlorophyll juice
from green plant,
see how Radium acts
on auto ditto X ray

test in Lab wireless
where alternate is X ray
tube — ditto ultra violet
from arc light etc of
measures equivalent

wireless Receiver telephone
with tuning fork attached
Each day tune with
damper on fork
also an resonator (tuned
to wanted note.

Dry Aluminum Condenser
in glass jar with
moisture or Aluminum
Cooled Thin plate of
pyro Soda.

Energy - Structure Carb
cylinders - monolined
with aluminate K.

Succinyle Tetraethylammonium
iodis into concentration -
Urea & Cinchona Tetra -
Sugar with Lime -

Measure Repeatedly
of Various Magnetics
Mechanical & anti-frictional
open & various ways -

Manganese alloys
Heat Lab. Magnetics
Try make by
Chemical precipitation
Shells Chrome

Dry osmosis -
Cell with porous partition
def gases on either side -
Light Heat - Magnetism + Elec
X Ray Refrac - Sound on
one side to Cause gaseous
dissociation - to detect def
pressure use U tube
with water ~~one drop~~
~~bubble~~

of Liquids Water is best
Carbon tet + the worst are
certain Ethers such as
Ethylene bromide
amyl Iodide, Ethyl Iodide

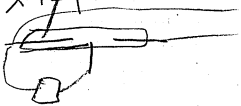
Tetraethyl de Carbon in
the ordinary air of
gasoline garages

4 @ 6 inch rods 1/2 dia
in powerful Helix Current
Silver disk Carbon or telefone
See if hear sound of the
Expansion of different
metals —

Thermo along glass
Iron or other bars —
Vibrator Connected
therewith (?) Each
Iron — or Mirror gals
& make arc at end
see how quick heat flows
also platinum red hot
+ sudden quench —

Think Edison effect
will be shown on
alternating arc by
Coupling P of Vts a
gold or therefore to
polished platinum head
near arc so ultra
Violet strike it —

Probably same thing
in Vac Tubes —
X Ray Tubes —



possibly the Slides of Crystals with black paper & lines on Dry plate & Exposure to Sun that Sun will cause some Crystals to give a ray which penetrates the paper a record use screen 20 mesh - over dry plate

also try with Hydro & Elec arc —

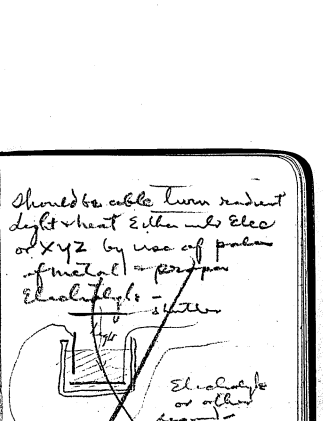
perhaps a coil of short wire like a sounder spool. Key like ala Ether powerful Storage Cell & wire Enclosing in disk held over Slides. the slides being ~~[illegible]~~ laid on grounded Labs produce fluorescence of Crystals are tuning forks

possibly Crystals land over number the click of wor[illegible] [illegible] high note

fluorescent crystals made of a powerful low inductance helix make & break also with keying for the —

Take a plate & connect plate to Sol a battery & put tin foil around it. Use 2 plates put current thro each plate diff direction. Energy action on Dop —.

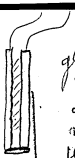
Should be able turn radiant light & heat Ether into Elec or XYZ by use of probes of metal — perhaps Electrolytic —



for detecting use Revolving shutter — also used pulsing and height of pulse a sound in the ether or absorber

also use gold vac deposit that lights gases through

possibly all rays except
one roll Vibration Osc.
filtered out — or Ultra
red Strike one pole —
Ultra Violet the other
possibly with iron, nickel
Ultra Violet it will ox
+ use Ni OH other pole
possibly Thermo elf —
2 Vac deposited metals
Ultra Violet goes thro one
or Red thru the other
etc
all these are so very
likely to give X.Y.Z.
hence try [illegible]
Reasoning



glass ball
Vac deposit
one side dif
metals —
Third metal —
Light shines thro
gives X.Y.Z —

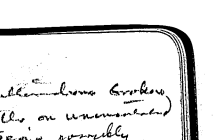
By Commutator Rectifier
for Quad — 4 cells in
on the side of pump
of Condenser around —
Relay make it
short or
shunt —

Put strip with electric
acid over it & in 1½%
KOH, with NaOH or not
Elec. should give current
as electric discharge
Electr. fill — or Cond
Condensing discharge

Insulated wire ground
Ground metallic ball
Try X ray on wire
Jar of Electrodes
with Sulphic Zinc
acid — to see dif
metal Conductors

probably Emg on unusual
its output will show that
a wave goes over wire before
it does the wireless
by alternating current
magnetic & mechanical

by output alternations broken
up into little or unusual
waves — series possibly
at receiver if cells refining
Try wireless of this Current



Insulated layers
See if X ray
Comes out —
with gold leaf
Photoplate
or fluorescence
Try Bergul etc

Use of X ray - Radium
increased or decreased
absorption through
Liquid in solution or when
in the dry or Electric
Stress - Shielded
Hot.

X42

different solutions or
Metals -

Rays lower than heat
but higher than sound
possibly detected
by very light mass
Emg - + Reflecting
shutter - shining on screen
of check

also on a cell with Electrolyte
shining on the anode or
Cathode - or a current
passing - depending any
Zn ~~Lead~~ the ray shining on
anode or Cathode.
with Shutter, possibly
low wire Coil -
possibly Al Reflector -
wet or possible dry
possibly some metals cut off a ray
after the transition.

X42 Cell -
Iodine or Br dissolved in
insulating liquids -
different for Electrodes
~~other~~ rotated or Emg - +
X42 Recovery - Carbon not
attacked.

Cylinders of Oxalate
difference in Emg possible
after fraction of a cm
light - Shielded

also cylinder of other
things giving pneumococcus
fluorescence –
ditto Cupro-Cy K & X ray

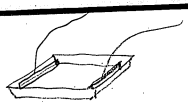
Try Edison Effect on
platinum Incandescent &
Incandescent Lamp –

also Horwell flash
with Bi Sulphide
Carbon & Lead
electric furnace

Against Asphaltic
& Lead with
Sulphur so dont melt

Silk thread dip in
asphalt & sulphur
many times & dip
many times –

Rubber surgical fabric
dip in asphalt & sulphur
Redip a so on –
ditto Oxidized Nitric
will Asphalt be acted
on by Hot Hypochlorous.
Soda – ditto Bromine
Hot Chlorine gas –
" Hypochlorous acid
gas –
Hormones dissolve in Ammonia
etc – also Hormones decomposed
by Hot chlorine & Tin –
Try Nitrogen Sulphide
good enough make fulminate flow it
Urine also polished odor or glass
act on Chemically Urine filters
organic – fumes perfect antiseptic



Pass powerful current thro liquid while crystallizing slowly - use thin ~~[illegible]~~ plates so they get heat of solution quickly.

In many ~~[illegible]~~ cases the ray shows the surfaces of shock cylinder although the high speed of solution so the effect may be very short.

XYZ Rays (capillary tube with Hg on 1 part + a liquid in commutator) have thus given - attenuation of central gas rays

Crystals while under fluorescence or phos - Electrify - Magnetize pass light thro Iodine or K. Sulfate + also colored liquids.

See if needle like crystals have any "directive force"

Exp - with chalk & crystals & hard crystal on pan under cond of metal -

XYZ Rays (Exhausted tube with capillary 36" long filled Hg) - Ray strike bulb -

X Y Z Rays

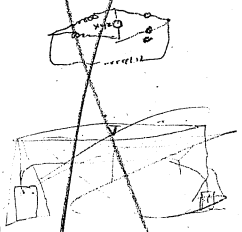
2 Electrodes sealed in
build - Capillary tubes -
therefore - Non Electrolyte
Rays change Capillarity

Electrify a platinum wire
the Coop - Gold leaf has
a set in Quantum of Charge
see of Spectra pattern -

See of Radium X ray
alters Electro affect

see of Drops P.S. of C
in water column affected
by E mag or X Y Z -

Emg - galv Pto Galvanometer
in Bridge - Large Voltage
4 cells, one Rung alike
to derived Galvanometer -



Emg - Trey from Electrolyte
to wet + E also X Y Z
rays etc -

XYZ Rectifier a wire dipping into Non Electrolyte with a drop of Electrolyte on End –

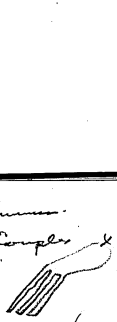
dith a capillary tube with Electrolyte in, immersed in Non Electrolyte –

Dry fluorescent Crystals immersed in Electrolyte then Electrolyte –

for the dead short old Leclanche use 10 cells Reg Nº 92 storage battery best only Zinc plates instead storage battery plates this makes a wonderfully low Res

dead + alumin.

20 or 30 Couples XYZ



Radium X strikes – powerfully gives Z or XYZ

Res of X or Radium ionize non Electrolyte use Current – also use Aerials + Cathodes of metals, –

fluorescent Crystals Containing an admixture of Iron Salt, then Magnetism + X + Radium Vibrating Magnetism also –

Opalescence in Tube by precipitated sulphur act on by Light Mesoth X & Radium with Beam light - see if altered

Try other precipitate - Ferric,

Try X & Ra on fluorescence in liquids which do not decolorize the Crystals -

Subject lead in crucible to very high temp Arc Light - afterwards test for Silver - Keep it going 1 hour -

ditto Manganese

test for Cobalt -

Copper test for platinum & silver -

Iron & sulphur test for gold -

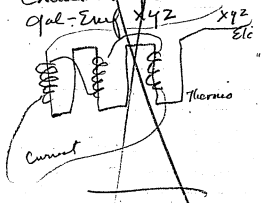
See if spectrum or line spectrum changed by subjecting glass prism to X ray

Radium Magnetism

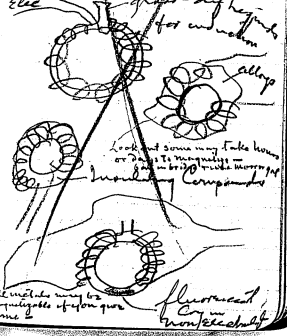
Elec stream -

Rec of beam light deflected
from polarized surface
def alloys in Helix
magnetized –

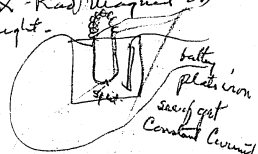
Sheet flake – Ni Cu
60 or 80 thick
in Helix – Each side
Commutator by wire to
Gal – Emf XYZ



work out experiments from the
analogy of a coil doing
work on not same direction
as current in charging or
a storage battery surface
Capacity doing electrical
work – giving current
in opposite direction –



See if change of Fe Ni
Storage in helix affected -
also my lower case by
X - Ray Magnet on
Light -

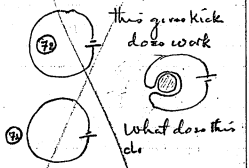


on Mirror gal

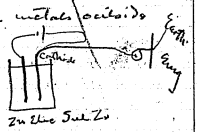
permanent magnetic wire

If Magnetic self induction
is at square of the length
of the choked low current
then Magnet 320 ft long & closed
wound with wire will take
16 min to charge & charge
1280 ft gives 4 hours
heard in 1/50/sec for 100 ft wire
electric

This properly proportioned I.
work on right part of calculation
Curve showed gave a good
Storage battery for RR work
when only few minutes
count Current.



try B. & other metals oscilloids



Fluorescent Crystals on back unshielded from heavy deposit

Zn under Cathode sends waves & agitate Crystals.

Fluorescent Crystals on face, may alternations.

Iron magnetized may be decomposed into 2 things Fe & O. Fe by itself does not show magnetism. O by itself does not show magnetism. Iron & O combined form 2 kinds iron or other minerals.

Income of the battery work is done by changing potential of Fe & O. Current is given in opp direction to original current, changes with Iron. The current is in same direction hence there is combination

of something on changing decomposition on discharge. The new molecule combines with itself to make a new kind of Iron Molecule & then decomposes when current goes off.

As Fe salts are magnetic they should give deep reactions when placed under magnetized

Try precipitate Fe with HS — oxidize — discharging iron from a Ring of power Fe. Magnetized — test for Mn Co Ni

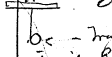
also if this fine New Carbon due to Magnetism then Storage Battery changed iron ought to be affected in some way when powerfully magnetized.

also try dissolving time of an iron ring charged that chg magnetic action

put Eng in current where
plating & decomposition taking
place & also in sounding
of Coil in producing effect
of Voltaic plating & decomposition
of Volts take place notice
character of sounds –

To detect waves of higher
note than Eow can give
fasten to chemical compound
packet with fluorescent
Crystals also a thermo
or where a wire rubs or
detect by galv
also by rubbing on a chalk
generating a current.
also control sensitive flame
also mirror long focus –

Ox – Transformer &
Clean materials Rep alumes
Using Cylinder & allow
friction –



Helix – plane with various
metals

Use cell Telinchl Carbon
Ag Hg Pb Electrodes
High voltage Current see
of decomposed or Ag Cl
formed – also Vitrate
the Voltage –

a magnet is sensitive to jars
use telephone + let X rays Red
+ X42 strike end of iron
or rather permanent steel
mag - use high resis ray
coil also few turns
Connected to Emg - or X42
instruments, this would
turn vibrations between
light + heat into Elec
power using already Gemade
of very fine steel hearings
+ magnetized in vacuo.

Dry storage - that pri sheet
paste 5/1000 (time 17/08 moistened)
1/1000, 10% - No plate proved porosity of
Reg iron sensitized 10% 1000.
Lab one on top then
sheet iron, paper, asbestos -

Melt some aluminum by
Current in Vac, get
percent of unmelted
oxide - notice
peculiarities of the
pure metal,
analyze residue

See if oxides or compounds
having same specif
gravity as aluminum
will alloy with it,

Drop of liquid on paraffined
surface of watch glass
2 platina wires in
X42 mat.

Watch glass g manufactured
liquid drops - try
magnetism X Rod with
dif metals as electrodes
also effect of drops g many
thoroughly -
Ditto glycerine surface
or drop non electrolyte

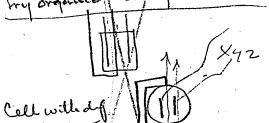
glass tube
Electrolyte
alternating & DC see
if liquid rotates
use opalescent sulphur
& mercury

Vacuo deposit Metal thin
so see thin film assumed
with Coil rate if affects amount
of light when magnetized or not

perhaps aluminum wire
in Sea water would
mantate up.

See if 3 g block of
Cocoanut by heavy pressure
press hard near a smooth
surface wrapped in paper
Effect of heat in
time -

Several small porcelain Crucibles
○○○○ Each with saturated hot
○○○○ Sol of salt. Very thin
○○○○ aluminum plate over all & dry plate
with 20 minute exposure see if
any X-Y-Z ray photos on Crystalography
Try organic & inorganic.



Cell with dry
Electrolyte
solution.
one Electrode
guarded for X-ray by
Thick lead —
Shutter on X ray — X-Y-Z Recording

$Mn(OH)_2$ is ionized enough through
solid aluminum Cond. dyt gives
green according to Ostwald
Try many Elec. systems X
etc to change color —

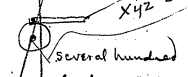
Is $Ni(OH)_3$ magnetic,
diff. Co

Ralph's precipitate $Mn(OH)_2$
with 10% of Every other
permutable metal or chemical
Materials or Reagents
1/2 wash wet filt low
heat, —

also plan $Mn(OH)_2$ from
Materials + Chlor. de
1/2 W wet filt low heat

Crystalizing organic substances
hot liquids under electric
stress Galvanic Electrodes in
sol - use 125 Volts - also
alternating

Crystalizing both organic
inorganic Colored crystal
- dark - also under
arc Hg arc. X ray -



Rev mining - cylinders & pieces
for to refuse
also magnetized

in telephone circ connected
to Tuning fork also
add a Induction Coil
of such inductance that
it will be in time with
the fork

Marshall
find out from the Neff man
who makes Condensers
if he makes an
artificial Cable -
W

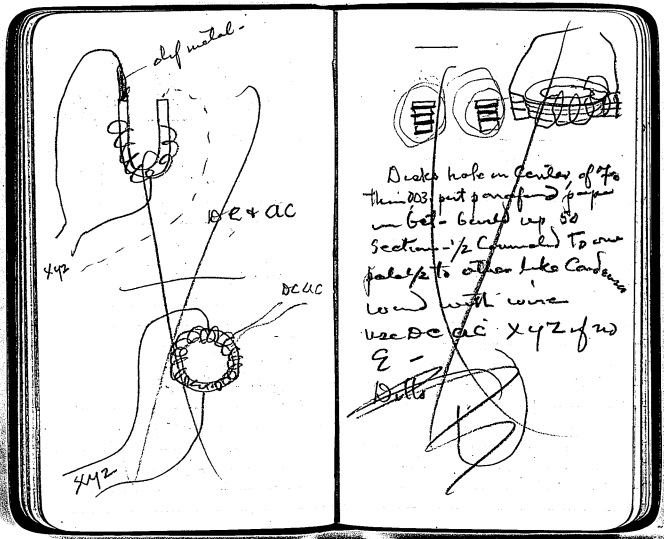
Dry plate see
if offered

Wd. Eng Cylinders with
plating solution - will have
to use opaque etc for cylinder so
Solution dont affect, Indelible
Cold so no deposit -

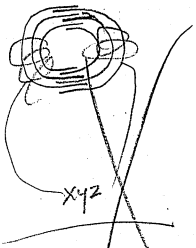
Plating Cells with porous
Cylinders, soaked with
Tannic Fe, Cu & other
precipt to close pores
fine & close deposit
Cu etc on the porous
cell - will lead to Smelling

Make an insulating which
has iron in it - Enough to
metallurgy To dissolve clay
as gilla or Iron act
just the opp on clay pulling
the 2 together ought to
Equally heal or keep the
effects + permit repair
repulsion or spindled
Iron wire or aqueous
Cloud rings

Closed nose ring with
few turns wire in
bridge to deflection Kick
then put whole in
Oil to give hydraulic
press act of non gas
less Kick -


dry metal
DC & AC
XYZ
DC AC
XYZ
Drill

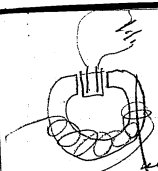
also



Coarse charged
& finely divided
metals

column Hg

XYZ Elo



Zepolo Zesoy
Sol

see of all
Voltage
according to density
of plating

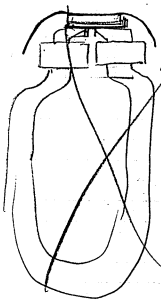
X-ray break wheel.
& little Ethric Coil
dittos just breakdown
Coil in Vacuum

get Surgical Elo of Rare
metals Mellaceforms
Especially Tellurium
& make alloys with wire
when heated [illegible] 82,304

Try one Ring - flow with metal
faces [illegible] in dry electric
Rubbing on Metallic Cylinder
use
[illegible] Current
see how friction is
use micro file

dia -

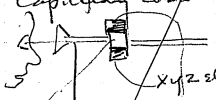
Try lot Reports May [illegible]
Electrode in Kott
Mott Lott. def
Metals



Silver carbon
[illegible] on iron
Telephone Receiver

Nutmeg
Cocoa
Spice
Pepper
Lace
Mahogany
Cinchonia
Coffee
Tea
Jonqua
Calabash
Pecan
English Walnut.
Grape
Brazil nut palm.
Licorice

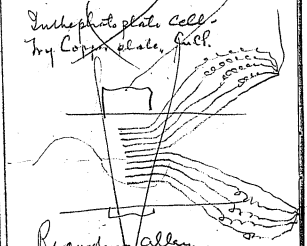
Parallel a beam of
Light, X - Heat through
a long hole very fine
Capillary Zero - Black



Different Crystals -
Rock salt - normally
its in line, a movement
of 1/100 made it
absorbed.
Use Elec Glass-Mag
X Red XYZ -
Sulphur as well as
Crystals - also use
Spectroscope & absorb
Sal Comparable absorp
To 0001

Surround solution w
Crystal with halix —

In the photo plate cell
try Copper plate, fuch.



Recording Galvanometer
Connects

Gravity Make Some
flake w 1/4 thick
for rolling on grain

Flash Copper wire / coil
with Carbon, glass out
Copper & Silver in
furnace tube of
Carbon —
Ni wire - Red hot chromic
to Valcolate the Ni —
Iron wire dittto Valcolate
as chloride —

gravity Reg graph
mix
2 Wt flake —

after viscosity tried
tubes various kinds
of solutions by X Ray
Red & E Mag + X ray

Ions probable come
off everything —
possibly accelerated
by E forces Mag
Heat elec — X ray
accumulate on
charged paper giving
a color
pass X ray through
+ catch in Reaction
solutions

Amount of conducting
& non conducting powder
& amount fused so
resulted Space 1/4
of conducting particles
use high voltage
jump in air & vac

Aluminum Rectifier
with a plating solution
to demonstrate heat.

Aluminum plate polished
& coated dipped in sol
used as dry plate photo
:

Passing Aluminum plate
in certain solutions
good for Cathode ray plate or
other good

p 55 – polished plate in lime water at room temp – dight working in plate room temp at bright pressure – solub by CuO dummies – deposits on plate. gives $CuSO_4$

Try glass tube with graduation Coil through Aluminum Rectifier –

Aluminum Rect by keeping as to Electrodes one being minute large than the other

p 55 – silver plate with Ag nitrate by H. to get black – cell has chlorine light common solute chlorine formed

By D. –

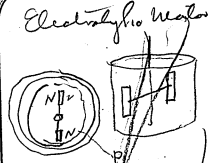
Dotts plate coated Chloride, Hydrogen in Cell – light common decomp

H takes place almost wholly

Copper plate Acetylene gas in Cell – light common formation C_2H_2

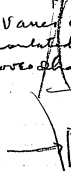
Collodion plate with Reg silver on it part in Cell in presence of H_2 light see if cant get rid galvan

Electrolytic Meter



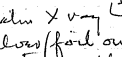
2 vanes opposite sides mounted gas former moves shaft.

XYZ

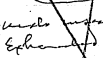


e f electrodes def models liquid in cell absorb X, heat light Rad absorbs ray passes over Electrode in some form.

Gelatin X ray film — Silver halide outside ray light off aq. of form AgCl deposited Degradation, light blackens it =



Liquids metallic — Ephemeral — XYZ ray



then pass current & test against def concentration opposite absorption

~~Photo Neon discharge also images by Reflection (to) prevent light thick lattice [illegible]~~

~~Tube blocked using 2 beam light right angles to each other Electrodes among the affect the light also by Spectroscopy also shutter on beam Electrodes for X Y Z~~

~~Vg~~

~~chief legends~~

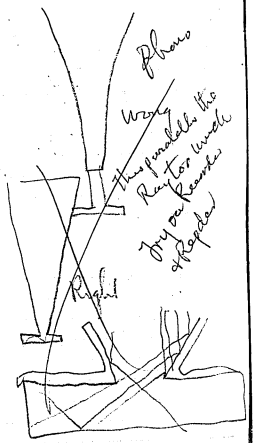
by delicate thermo & galv see if phosphorescent crystals are heated temp then affects

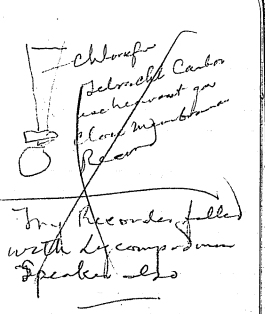
~~Solid Wire etc, thin foil Eng Gases X + Rad light — Rate of change and Conclusions~~

~~foil coated iridium precipitated CaWO4 X Rad pass of charge & Elec also Oxal Lithium Balmain Ord Light~~

Arc light Kenotes
Cloth saturated
Oxalate Lithium
So less platinum necessary
Try other salts
If particles thrown off
from Anode and of
course on over
Exposure Chlorine
Iodide Br Flo the
platinum Sodium
Catch thrown off
particles in Colored
Reagents

In chemical reed
pens - try all metals
with def solution
Anode & Cathode &
develope with
reagents giving
Colored precip
with deposit of ox
Cl I Br Flo left
on paper etc.
Telewriting
Patent usage
(Le) marks


Phono
Wrong
Thus parallels the
Rector under
Jury on Recorder
of Reporter
Right


Chloroform
Carbon
Tetrachloride
Inactive vapor gas
Recorder
Jury Recorder filled
with Decomposition
Spoiled also

X ray tube thus

disks of platinum facing
Each other Mica ring
.0001 between —

Perhaps there is an
unknown ray in
the Ether coming from
some direction + use
X Y Z units connect
to plates deflect kind
move in add direction
also use shutter

get good gold leaf must
for X ray Rays

Possibly some Crystals
subjected to intermittent
impulses of diff known rays
will change the ray
to X Y Z

Reduce some CP WO_3
to metal, flash it on
Carbon fila by Vacuum
process — dilute on
Copper + dissolve
Copper by flake
solution,

Write Dr. Ly to make some WO_3 + have Ralph reduce it at White Heat + try it — also a 80 Fe + 20 WO_3 at white heat.

Measure Elec Conduct, Expansion, heat Conduct, Thermo Elec Cap —
a tungsten X ray of deposited Metals —

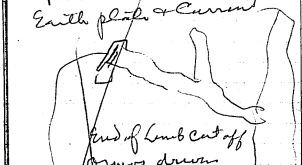
perhaps end of cerium with powerful ~~[illegible]~~ high voltage, alternate or straight using wheel break will project particles sufficient to effect Aluminum
Volumite Elec Column
$CaWO_4$ etc —

See if longing of semi Conductor Tantalum is increased by Light Mag X Ray.
Electric Stress, Phosphorus

Turning wax electrifies
Chips - probably one
Rind wax made P
another negative -
put both under lagging
& burn quick with gravel
metal for leads just
a Current in an electrolyte

Put leads in Vac
Rub on gum Copal
varnish with Rodinal
just light!

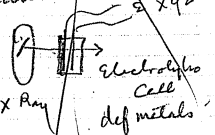
Lap Camphor Gas
put electrode at Lap
Earth plate & Current



dittto Cut end of limb
fit close with glass
Cap + rubber to
Establish Vacuum
draw sap into
Vac -

Throw acetate Lime other Lime Salts over Coal see if increase radiant power of flame or Coal for Domestic purposes a Lime salt that will puff out preferred.

Metallic Tungsten for X ray Electrode impinging plate melted that. Cant melt it —



See if any diffn Kick of a closed ring mag single winding also in high Vac as against atoms in air.

Try Kick of chas in perfect insulating Liquid. hot + cold subjected to X Ray + Light.

Calculate out number of metal per pound when drawn into wire - diffs atomic weight. Eg amorphous - Electrolytic series, Sol in KOH.

Wind a coil of iron wire
mounted, 1/4 thick around
then wind reg Copper
Solenoid the iron Coil
magnetically measures
the Res of the iron
then demagnetize + measure it
Try nonmagnetic metals
as well, also electrolyte
ring with plating sol +
Electrodes & —

Double Salt of Uranyl
Lime + iron ought to
fluoresce by propagating
alternated Magnetic wave

also Benzoate Ferrous
Ferrous Zinc Silicate
Ferrous Lime — Ba —

Try all Iron salts with
Rapidly alternated Magnetic
waves for fluorescence

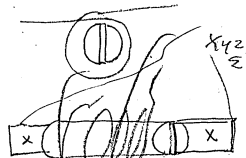
Y 42

use 1/4 inch ring
steel permanent
magnetized so as
to allow alternate current
iron pellet —
or

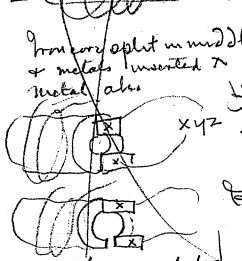
Let permanent magnet crystals
wholly

coil
Crystals

discharge Leyden
also Induction Coil
balls — wires
+ of Electric



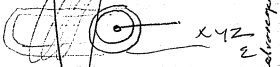
Iron cory split in middle & metals inserted ∧ Metal also



also mounted

also

Metallic Coating of Central wire



Metallic light covers of metal related from

If cores of metal are proceeded the direction of Current then a disk of Silver. Connected one pole & a disk of iron to other the passage of Current through tube shaped piece of iron into the Ag Wire

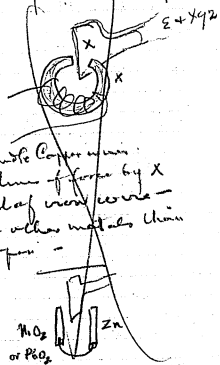
Speaking or Chemically

Little Ethereo coil no 12
wire stranded of 36 wires
and wound 1/4 inch hole
to 1 1/2 diam 1/4 inch
inside put in Vacuum
Equal to X ray - insulated
by air space put each
end + Copper by low
discharge. -
Revolving oxide
heavy amperes +
Air blow for spark
or Compressor for
Ethereo - also with
Mercury in fine row
wire in

Chemical recorder
Test paper with K Chloride -
for Fe pen developer with
Ferricy - HS. + NH4 y

Cobalt pen - HS NH4 y - Hypo acid Fe
much Hydrol. KOH
Nickel " " Ferricy
much is spark KOH.
Copper - HS in acid - Hypo Na
Pb - HS, Hypo Na
Bi - pen platinum pen over it
as Cathode reduces to
metal - also red and metal by H.
Arsenic HS and + Hydrogen from organic
Sb - reduced to black metal by H,
+ HS and
arsenic acid reduced at H pole by Cu
to metal -
Silver, Chloride or Bromide K, then
expose + light, or reduce at
or pressing wire cathode to
reduce to metallic

Ferrous Silicate powerfully magnetized ought show corollary phenomena with Light.



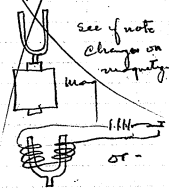
X bundle Copper wire
Cut lines of force by X
Coil of wire wire —
use other metals than
Copper —

Possibly there are lines of
polarization between PbO_2 &
Zinc which were now
within E or XYZ

Put hot bar iron in hand
Strong Current, see which
End Cools off first.

ditto heat center see which
Ends reach to 200 1st —

See if elasticity of iron
is diminished or increased
by magnetism



Flashing arcs at end of wires alternately showed on account of ultra violet waves permit an better contrast with the space 2 Phys Lab Experiment down diaphoretic polarization of surfaces of the panels. Think these reasons why best results in dry times. The light coming so few inches from it or form part of the antennas.

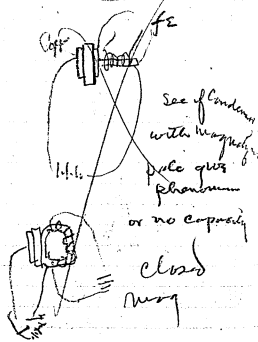
Polarization of metals shown by slopes by Ultra Violet Light on Electrodes.

Resistance of iron wire showed greatly increase when magnetized saturated as many ganges compounds to be formed of Fe ions

Record of metals are functions of free ions or combined ions.

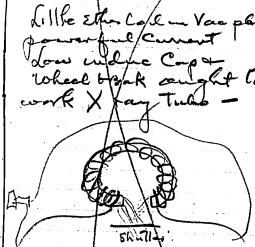
Al Cr Ag wires have their ions free whereas in Zinc che part are free & parts are combine of Zinc wire with either Zinc ions to form Complexes many complexes are stable, in iron many are stable while ~~these~~ free ions combine with Extraordinary Energy To form complexes. Al, does not hence manifestes power of Fe Mn has some free ions which — presence of very Sb ions Combine with great ease to form Complexes wonderful Electrolytes hence Mag quetes

perhaps X ray would
appear at a lower stage
of Vacuum of Crookes
Violet Light shows in
Electrodes -



see if iron line in
discernible in Spectra from
Combustion of iron pipe

Lillie Ether Coil in Vac phly
powerful Current
low inductance Coil &
Wheel break caught to
work X ray Tube -

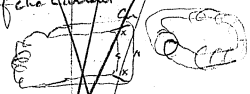


Also soft Fe
wrapped with
insulated
sounding
Telephone -

Within X light
strike Earth - Gaseous
mercury see if altering
so heard in telephone

Yellow in pyrite not sure
Wheatstone's Bridge

In passing one side of a loop of copper wire through a field gap, is due to polarization of Cu ions in one direction so as to determine the direction of the current



Then on pulling it out the residual ions acted to reverse direction

Can prove this by passing in open circuit pull X X out turn it around & shove it in again & should give current in opposite direction

But if this polarization is a prelude to such movement was out then

See if a Copper Zinc Couple a la Gladstone is magnetic alone, or then put in helix of old magnetic theory of molecular currents in all directions are lined up by Coil – then the Cu Zn Couples ought to be magnetic & give a kick on a mudrow galv

Copper has practical affinity for S Mn the least an alloy of Cu S & metallic Mn ought to be an interesting material

To get data for new Electrolytic theory from Kaufmann's method of just seeing at the part of the curves of deflectability

Make table of potential gradients of all combinations. Cooling Ca which is balance is highest to Mg 100. Ti zero. Cooling OX zero

as all small or from anode of Hg with Hg cathode in KOH. act as electrolysis. The effect of HCl may not be poisons for it so Hg cant spread out thin

glass protected!

2 balls in Vac i of Hg delicately hung.
one ball shielded from light not burning glass focus heat Al – it slowly go
~~Repulsed~~ by the heat

Can it be that high temp World repels in the Ether a low temp world. The Sun repelling the Earth & the Earth still of lower temp & throws back or repelled from zero temp of space + so now in equilibrium & Eccentric orbit is due to variation of temp ~~by~~ of space, the Center Earth is hot outside. not so hot result repulsion but Sun also repulsion hence equilibrium

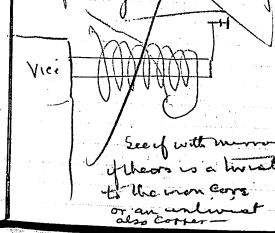
at centre Earth no repulsion
between it & rest of both
same being but outer shell
is repulsed hence gravity.
Every body sending out ether
waves of 100 energy repels
those sending out ether waves
of less than 100 -
hence gravity.

If a helix stretch on
Condensers & end of mag
the other end ought not
to be compressed -
possibly if measured
one end would be less
than the other
possibly ether waves from
wire stretching now
Repulses clouds!

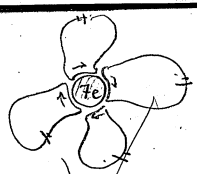
others produces Compression
& Elongation, on rings will
air dong + only Compression
on closed rings & this
would account for greater
work done & given out
on closed rings -
a closed ring immersed
in liquid with Condensers
in deep stand show
Conductivity, open gap
rings wouldn't adapt
with Evolution ~~fact~~ the
index.
If this is so Kick or
Converting Capacity
of a closed ring
should increase
by pressure - possibly
alternations of pressure
would create a current in
helix

Like Explosion in a
closed space containing
a closed wave running
surrounded with
wire —
allow dropping thus that
Ether waves or high temp
Regular low temp
bodies on the other
& of Cooling low
specific ht so little
work can be done
internally the impels in
+ apparent gravity —
weight will be greater
probably only low space had
bodies weigh heavier

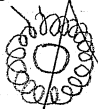
CP non coat flakes vac
deposit, transp - should
get some fine phenom with
these - can melt Fe_2O_3
by Oxyth flame - or perhaps
compound metal reduced by H
acts as Electrode -
Connection to + mercury
or unsolder by glass
Many other CP metallic
films get thus away



See if with mirror
of theory is a limit
to the non coze
or an unlimit
also copper —



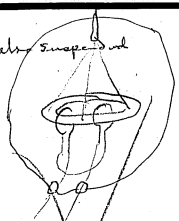
will become magnetic
or what is same thing



This is
Equivalent to
amp turns
with out
amp

Determine in Vacuo
Rack on 1½ mm ring
with & with vacuum
also at various pressures
of it showing exceptional

also suspended



So no inductive matter
Critical point lower or
Ring appears —

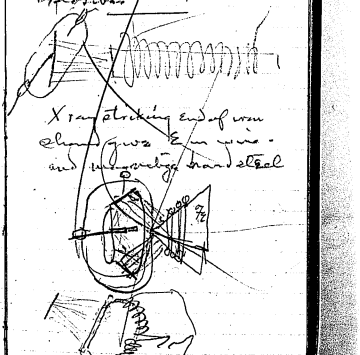
If ultra violet is absorbed by
shy mecy. will it not be
deflected very greatly
while the ether drag force
thus moved by a
force ultra from the ether waves
find the substance induced
towards ultra but not more
it for reflector perhaps
stressed by 2 wires X Rad
might affect the reflecting
atmosphere —

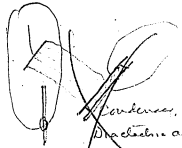
With a Bismuth
ring single turn
of wire decomposed
gives a kick in opp direction
to iron

If so then experiment
with Bi alloys to get them
more DIA like Wm 86
Sp. 51 etc.

If tendency of current around
iron form Endothermic iron aggregates
& absorb energy &
Diathermic tend to decompose
Endothermic aggregates.
Then possibly perox of
Ni being Endothermic
is magnetic or if not
battery current induced form
it & so on in a battery

perhaps Endothermic diathermic
might give interesting results
perox Ba & Earth Metals
Acetylides Cu Ag & all
Explosives



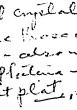


put Water + other dead drinks
Liquids in jar put in
Electrode of any plat + other Metals
~~[illegible]~~. Use rather high V
Now shine the liquid with
X Ray & Mag Ultra
+ also Ultra Shining on
Electroplating phos Light
diff's, Monochromatic
Light

X's reversed charge of Ultra
or intermittent Ultra to force
for matter to act to prevent
penetration - Try shielding for quick
1/2 million Rays seems not
also 2 sources

In all the Experiment
recorded so far cathode
ray up to 600 used
use Also Monochromatic
Light from Hg arc with
Quartz window -

Use steel platinum keep it
up to 6 @ 1800 fahr in
dead drink room +
test crystals for phos
like Phosphorus Eriscum
etc - also in mag field
at platinum - use chromel
heat plat.



use helix 1/2 long 1/4 inch halo
wireless weaver 1 turn the wires
+ put dif transparent drinks in + see
effect on the rays passing thru

group of 33% 1½ spread 21 holes
100 sulphur 25 sulphur
test 7½ after fungicide -

ditto Sulphide Iron 250 500 mlg
" arsenic [illegible] very fine 250 mlg
" Sulphide Sb -
500 mlg also solid piece brimstone.
Calcium Sulfide
Selenium -
Camphor -

group with 2 grams
H_2O -

L Ott put Ni cell ½ full Reg
green or 75% brilliant cold
keep full water -
one month Etc.

Billy Bee Reg up 60 cell
water a trifle balling
60% - Bly & dry reg
get heat use 10 Therm
fall standing dif parts
boiling - Have vulcanizing
placed black can be
cut out later - also
Several glasses for farm
make up one set with
trays now, another
½ inch apart - also
set trays lengthwise
& crossways &
keep accurate records
for reduction curves
also Reg Can filled
water 150 times to
moisture, vacuum -
Vanadium & Fung black
sulphurized Etc

Only ~~say~~ away of
Hydrocyanic also Muck

Make up a Reg Cell
33 put on hot table
No Current one month
Then throw out Sol soak
water 24 hours throw
out + fill 21 % Rum
Reg Hot Total,

Perhaps Iron can be
taken out tubes & flat
plates by 2 the alcohol
or acetone in alcohol
or dissolved HCl or
acetic the FeCl3 very
sol + NiCl3 do not,

possibly there is a deposit of
something on plates or the
greater the amount of
plate with a general
Element + Valuable the
longer the time it takes
to coat it + make good
Contact,

New Method producing Hydrocarbons
Organic chlorides either alone or
mixed with Hydrocarbon
with chemical Iron or Zinc

Sodium periodate prepare Na from
alkaline Sol – found by
action of Hypochlorite Na on
alkaline Sol – Says can be
used electrical Na

Try Hyp with phos Na
at Rechefiet –

2 N 1½ ½ wash -
Chyd Reversed after 5 R
Chyd decided reversed
all the time -

John Old & Roger Model
Coll Split where Cuban
Chuck go one can be
removed -

Group Cuban Reversed
Coulmorly against
CP Nickel Strip -

ditto against Bismuth
now -
ditto against Sprrrrs
Na Sulfate now
do against Cu Fe Gms

ditto Reg Fe &
250 mg glycerine -

Reverse Every alternate
20 Runs -
ditto Reg Fe &
13% KOH 15% 17
19

Duplicate with NaOH,
Duplicate KOH &
Na OH with 1 gm
glycerine -

When get Nickle have
John Meeks Company Model
Run strip of the Nickel
Group ..... time

Dr G measure viscosity

def'n KOH NaOH.

Read up on viscosity

Wet some of boat wax mixture with minimum KOH or, brick under hydrometer. Take & go work 20 minutes see how flows on heating

Heat shock speaking; appearance of magnifying now –

p

1 Plant flowers along walks.
2 Take out orange trees on avs
3 Put houses. plant Royal palms
4 Extend Tennis, Lawn & make shrubs infront our place –
5 = 200 loads manure –
6 Extend irrigating pipes etc over
7 plant grass
8 Set out rare trees.
9 plant Lawn & make avenue along Cobble length –

25000

13 / 400 000 / 3
39

5 000 –
70
35 000

20 000 –

40 000 . 35 –

80 000 – lbs an men

1 000
5
650.

30 000 –
30
90 000
80 000

80000 / 90 000

65 ft men
60
390

36

9-

3 | 1125

375

1500

1500

0

500
62
7000
30000
31000

45
45
225
180
202

4 cubes
1 ft deep
180 ft long

400

210 | 31000 (150
210
10000

40 ...

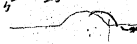
30 | 160000
150
100
90

5000

3.5

4 16
4½ 20
5 25

45
45
225
180
202



1000000
1000000
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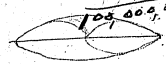

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